Author Index of Volume 183

Abed, M., 24
Auriel, C., 129

Babel, D., 158
Babereko, A. A., 59
Bilow, U., 45
Boller, H., 438
Böttcher, P., 98
Braun, J., 444
Brokamp, Th., 325
Brunnbauer, G., 252
Buschow, K. H. J., 181

Chilton, J. A., 385
Cockcroft, J. K., 241
Coles, B. R., 385
Conant, J. W., 174
Currie, P. D., 288

de Mooij, D. B., 181
Dehnicke, K., 30

Efimov, Yu. V., 59
Ellner, M., 444
Eluère, C., 1
Engel, A., 281
Eom, C.-B., 224

Finlayson, T. R., 288
Fischer, D., 187
Fisk, Z., 303, 312
Franzen, H. F., 7

Geballe, T. H., 224
Grannec, J., 263
Gruehn, R., 75, 85

Hafner, P., 430
Hagenmuller, P., 263
Hammerschmidt, A., 393
Handrick, K., 271
Harder, K., 413
Harris, I. R., 54
Hasse, J., 116
Hiebl, K., 438
Hiller, W., 30
Hönle, W., 403
Hoppe, R., 187, 198
Hübner, N., 85
Huster, J., 377

Jacobs, H., 325, 345
Jansen, M., 45
Johnston, D. C., 312
Johrendt, D., 210
Jung, B., 144
Jung, W., 363

Khan, H. R., 138
Kianvash, A., 54
Klepp, K. O., 252
Kliche, G., 413
Knoch, K. G., 54
Kratzheller, B., 75
Krebs, B., 393
Kreiner, G., 345
Kremer, R. K., 241

Lawson, A. C., 174
Leitus, G. M., 59
Li, Q., 168
Lin, J.-H., 403
Loebich, O., 138
Lüders, K., 116
Lueken, H., 271, 281

Mader, K., 198
Maple, M. B., 303
Mattausch, Hj., 241
Meerschaut, A., 129
Meske, W., 158
Mewis, A., 210
Meyer, G., 144
Miller, G. J., 7
Miller, L. L., 312
Müller-Buschbaum, Hk., 18, 24

Neubacher, M., 18
Ning, Y., 168
Nuszhär, D., 30

Peters, K., 413
Petry, K., 363
Predel, B., 444
Preetz, W., 413

Raju, N. P., 241
Range, K.-J., 430
Riesemeier, H., 116
Robertson, R., 174
Robrecht, M., 116
Rohwer, R. K., 174
Rouxel, J., 129
Ruchaud, N., 263

Sauer, M., 281
Scheidt, E.-W., 116
Scheins, W., 271
Schewe-Miller, I., 98
Schobinger-Papamantellos, P., 181
Shamrai, V. F., 59
Schirber, J. E., 312
Shulgin, A. I., 59
Sibirtsev, S. A., 59
Simon, A., 241
Smith, T. F., 288
Soubeyroux, J. L., 263
Sun, K., 312
Suzuki, Y., 224

Talcott, C. L., 174
Triscone, J.-M., 224

von Schnering, H. G., 403, 413

Webb, G. W., 109
Weller, F., 30

Yao, X.-Q., 7
Young, V. A., 174

Zhou, X.-M., 168

Subject index of Volume 183

Aluminium
- new alkali earth metal chlorooxometallate with Ir^{5+}: $Ba_5IrIn_2Al_2O_3Cl$, 18
- magnetism of europium clusters in intermetallic compounds containing magnesium, on the influence of aluminium on the intra- and intercluster exchange effect in $Eu(Mg_{1-x}Al_x)$, 271
- on the structure of high-temperature-phase Cr_5Al_8(h), 444
- synthesis of platinum-rich Al–Pt compounds by reaction in the $Pt/AlI_3/I_2$ system, 281
- effects of Gd substitutions on the heavy fermion compounds $CeAl_3$, 385

Ammonium
- synthesis, structure and properties of the cluster anions $[(Mo_6Cl^i_8)X^a_6]^{2-}$ with $X^a \equiv$ F, Cl, Br, I, 413

Anisotropy
- heat capacity (150–300 K) and anisotropic magnetic susceptibility (5–300 K) of single-crystal La_2CuO_{4+x}, 312

Arsenic
- synthesis and crystal structure of the compounds SEPdAs (SE ≡ La–Lu), 210

Barium
- new alkali earth metal chlorooxometallate with Ir^{5+}: $Ba_5IrIn_2Al_2O_3Cl$, 18
- *A*-axis-oriented $YBa_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattices: growth and transport properties, 224
- new halogeno-oxoindate $Ba_3In_2O_5Br_2$ with the $Sr_3Ti_2O_7$ structure, 24

Bismuth
- magnetization and flux pinning studies of superconducting In–21.8at%Bi eutectic alloys, 288
- structural peculiarities of the 123 and 2212 phases and materials based on them, 59

Boron
- *A*-axis-oriented $YBa_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattices: growth and transport properties, 224
- Nd–Fe–B-based magnets: magnetic properties and microstructural appearance with copper addition, 54
- synthesis and crystal structure of the zinc–iridium borides $ZnIrB_3$, $Zn_6Ir_{11}B_{6-x}$, $ZnIr_2B_2$ and Zn_2Ir_2B, 363
- synthesis and structure of $Na_3B_5O_8S$, the first oxothioborate, 393

Bromine
- new halogeno-oxoindate $Ba_3In_2O_5Br_2$ with the $Sr_3Ti_2O_7$ structure, 24

Caesium
- first caesium-containing oxoiridate(IV): $Cs_2Na_2(IrO_4)$ containing the quadratic-planar building block $(IrO_4)^{4-}$, 198
- synthesis and structure of the silver-rich alkali metal silver sulphides $CsAg_7S_4$ and $RbAg_7S_4$, 377

Carbon
- quaternary pseudo-intercalation phases T_x [Nb_2S_2C] (T ≡ V, Cr, Mn, Fe, Co, Ni, Cu) and metastable Nb_2S_2C formed by topochemical synthesis, 438
- structure and magnetic ordering of holmium carbide fluoride, Ho_2CF_2, 241

Cerium
- effects of Gd substitutions on the heavy fermion compounds $CeAl_3$, 385

Chlorine
- new alkali earth metal chlorooxometallate with Ir^{5+}: $Ba_5IrIn_2Al_2O_3Cl$, 18

Chromium
- structure of high-temperature-phase Cr_5Al_8(h), 444

Conductivity
- formation of the Laves phases in Co/Fe–V–Zr and their magnetic and superconducting properties, 138

magnetization and flux pinning studies of superconducting In–21.8at%Bi eutectic alloys, 288

Copper
A-axis-oriented $YBa_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattices: growth and transport properties, 224
extension of solid solubility of rare earth metals in copper by rapid solidification, 168
thermal behaviour of transition metal niobates, synthesis and structure of orthorhombic $CuNb_2O_6$, 75

Crystal structure
redetermination of the crystal structure of trimagnesium platinum, Mg_3Pt, 430
crystal structure and electronic structure of $Nb_xTa_{2-x}S$ ($x=0.95$): a new layered compound in ternary Ta–Nb–S system, 7
crystal structure of the compound $DyGe_3$, 181
crystal structures of octacyanomdydates(IV), quadratic antiprismatic $[Mo(CN)_8]^{4-}$ coordination in the thallium compound $Tl_4[Mo(CN)_8]$, 158
electrochemical synthesis and crystal structure of three new clathrates $HgAg_6O_8ClO_4$, $HgAg_6O_8NO_3$ and $Hg_2Ag_{18}O_{33}H_{22}(ClO_4)_4$, 45
synthesis and crystal structure of the compounds SEPdAs (SE ≡ La–Lu), 210
synthesis and crystal structure of the zinc-iridium borides $ZnIrB_3$, $Zn_6Ir_{11}B_{6-x}$, $ZnIr_2B_2$ and Zn_2Ir_2B, 363

Electric fields
ultrafine fibers formed in electric fields, 109

Electronic structure
crystal structure and electronic structure of $Nb_xTa_{2-x}S$ ($x=0.95$): a new layered compound in ternary Ta–Nb–S system, 7

Europium
magnetism of europium clusters in intermetallic compounds containing magnesium, on the influence of aluminium on the intra- and intercluster exchange effect in $Eu(Mg_{1-x}Al_x)$, 271

Fluorine
neutron diffraction study of the anion-excess cubic ReO_3-type derived phase $Fe_{0.80}Zr_{0.20}F_{3.20}$, 263
structure and magnetic ordering of holmium carbide fluoride, Ho_2CF_2, 241

Gadolinium
effects of Gd substitutions on the heavy fermion compounds $CeAl_3$, 385

Gold
$Na_7Au_5S_6$ - a novel thioaurate(I) based on a b.c.c. chalcogen packing, 252

Heat capacity
heat capacity (150–300 K) and anisotropic magnetic susceptibility (5–300 K) of single-crystal La_2CuO_{4+x}, 312

Holmium
structure and magnetic ordering of holmium carbide fluoride, Ho_2CF_2, 241

Hydrates
tru-μ-iodo-hexachloro-triaquo-trirhenate(III)-3-hydrate $[Re_3(\mu\text{-}I)_3Cl_6(H_2O)_3]\cdot 3H_2O$ and the corresponding 2.5-hydrate $[Re_3(\mu\text{-}I)_3Cl_6(H_2O)_3]\cdot 2.5H_2O$, 144

Indium
magnetization and flux pinning studies of superconducting In–21.8at%Bi eutectic alloys, 288
new halogeno-oxoindate $Ba_3In_2O_5Br_2$ with the $Sr_3Ti_2O_7$ structure, 24

Iridium
new alkali earth metal chlorooxometallate with Ir^{5+}: $Ba_5IrIn_2Al_2O_3Cl$, 18
synthesis and crystal structure of the zinc-iridium borides $ZnIrB_3$, $Zn_6Ir_{11}B_{6-x}$, $ZnIr_2B_2$ and Zn_2Ir_2B, 363
first caesium-containing oxoiridate(IV): $(S_2Na_2(IrO_4)$ containing the quadratic-planar building block $(IrO_4)^{4-}$, 198

Iron
neutron diffraction study of the anion-excess cubic ReO_3-type derived phase $Fe_{0.80}Zr_{0.20}F_{3.20}$, 263
Nd–Fe–B-based magnets: magnetic properties and microstructural appearance with copper addition, 54

Lead
structure determination of a new misfit layer compound $(PbS)_{1.18}(TiS_2)_2$, 129
Lithium
synthesis and structure of a mixed-valent ternary tantalum nitride containing lithium and magnesium, 325

Magnesium
redetermination of the crystal structure of trimagnesium platinum, Mg_3Pt, 430
magnetism of europium clusters in intermetallic compounds containing magnesium, on the influence of aluminium in the intra- and intercluster exchange effect in $Eu(Mg_{1-x}Al_x)$, 271
synthesis and structure of a mixed-valent ternary tantalum nitride containing lithium and magnesium, 325
Magnetic properties
formation of the Laves phases in Co/Fe–V–Zr and their magnetic and superconducting properties, 138
Nd–Fe–B–based magnets: magnetic properties and microstructural appearance with copper addition, 54
Magnetic structure
magnetic structure of η-Mn_3N_2, 345
Magnetic susceptibility
heat capacity (150–300 K) and anisotropic magnetic susceptibility (5–300 K) of single-crystal La_2CuO_{4+x}, 312
Manganese
magnetic structure of η-Mn_3N_2, 345
new oxomanganate(V) in the elpasolith variant: (KNa) $K(MnO_4)$, 187
Mercury
electrochemical synthesis and crystal structure of three new clathrates $HgAg_6O_8ClO_4$, $HgAg_6O_8NO_3$ and $HgAg_{18}O_{33}H_{22}(ClO_4)_4$, 45
Metallic glasses
influence of 5f electrons on transport properties in uranium based metallic glasses, 116
Microstructure
formation of the Laves phases in Co/Fe–V–Zr and their magnetic and superconducting properties, 138
Nd–Fe–B-based magnets: magnetic properties and microstructural appearance with copper addition, 54
Molybdenum
crystal structures of octacyanomdydates(IV), quadratic antiprismatic $[Mo(CN)_8]^{4-}$ coordination in the thallium compound $Tl_4[Mo(CN)_8]$, 158

Neodymium
Nd–Fe–B-based magnets: magnetic properties and microstructural appearance with copper addition, 54
preparation, thermal behaviour and structure investigation of M-$Nd_2Ti_4O_{11}$, 85
Neutron diffraction
neutron diffraction study of the anion-excess cubic ReO_3-type derived phase $Fe_{0.80}Zr_{0.20}F_{3.20}$, 263
Debye-Waller factors of PdD_x materials by neutron powder diffraction, 174
Niobium
crystal structure and electronic structure of $Nb_xTa_{2-x}S$ ($x=0.95$): a new layered compound in ternary Ta–Nb–S system, 7
thermal behaviour of transition metal niobates, synthesis and structure of orthorhombic $CuNb_2O_6$, 75
quaternary pseudo-intercalation phases T_x [Nb_2S_2C] (T≡V, Cr, Mn, Fe, Co, Ni, Cu) and metastable Nb_2S_2C formed by topochemical synthesis, 438
synthesis and crystal structure of [Na(15-crown-5)]-{$NbF_5(NPPh_3)$}, $(PPh_3NH_2)[NbF_5(NPPh_3)]$ and {Cs(15-crown-5)$_2$}-(WOF_5), 30
synthesis and structure of Na_6WP_4, Na_5SrNbP_4 and Na_5SrTaP_4, 403
Nitrates
electrochemical synthesis and crystal structure of three new clathrates $HgAg_6O_8ClO_4$, $HgAg_6O_8NO_3$ and $HgAg_{18}O_{33}H_{22}(ClO_4)_4$, 45
Nitrogen
magnetic structure of η-Mn_3N_2, 345

Oxygen
new alkali earth metal chlorooxometallate with Ir^{5+}: $Ba_5IrIn_2Al_2O_3Cl$, 18
new oxomanganate(V) in the elpasolith variant: (KNa) $K(MnO_4)$, 187
new halogeno-oxoindate $Ba_3In_2O_5Br_2$ with the $Sr_3Ti_2O_7$ structure, 24

thermal behaviour of transition metal niobates, synthesis and structure of orthorhombic $CuNb_2O_6$, 75
preparation, thermal behaviour and structure investigation of M-$Nd_2Ti_4O_{11}$, 85
synthesis and structure of $Na_3B_5O_8S$, the first oxothioborate, 393

Palladium
Debye–Waller factors of PdD_x materials by neutron powder diffraction, 174
synthesis and crystal structure of the compounds SEPdAs (SE ≡ La–Lu), 210
Perchlorates
electrochemical synthesis and crystal structure of three new clathrates $HgAg_6O_8ClO_4$, $HgAg_6O_8NO_3$ and $Hg_2Al_{18}O_{33}H_{22}$ $(ClO_4)_4$, 45
Phosphorus
synthesis and crystal structure of [Na(15-crown-5)]-{$NbF_5(NPPh_3)$}, $(PPh_3NH_2)[NbF_5(NPPh_3)]$ and {$Cs(15\text{-crown-}5)_2$}-(WOF_5), 30
synthesis and structure of Na_6WP_4, Na_5SrNbP_4 and Na_5SrTaP_4, 403
Platinum
redetermination of the crystal structure of trimagnesium platinum, Mg_3Pt, 430
synthesis of platinum-rich Al–Pt compounds by reaction in the $Pt/AlI_3/I_2$ system, 281
Potassium
new oxomanganate(V) in the elpasolith variant: (KNa) $K(MnO_4)$, 187
Praseodymium
A-axis-oriented $YB_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattices: growth and transport properties, 224

Rare earth
extension of solid solubility of rare earth metals in copper by rapid solidification, 168
Rhenium
neutron diffraction study of the anion-excess cubic ReO_3-type derived phase $Fe_{0.80}Zr_{0.20}F_{3.20}$, 263
Rubidium
synthesis and structure of the silver-rich alkali metal silver sulphides $CsAg_7S_4$ and $RbAg_7S_4$, 377

Silicon
ternary tellunides with the W_5Si_3-type structure: $M_xK_4Te_3$ (M ≡ Ca,Sr), 98
Silver
electrochemical synthesis and crystal structure of three new clathrates $HgAg_6O_8ClO_4$, $HgAg_6O_8NO_3$ and $Hg_2Ag_{18}O_{33}H_{22}$ $(ClO_4)_4$, 45
synthesis and structure of the silver-rich alkali metal silver sulphides $CsAg_7S_4$ and $RbAg_7S_4$, 377
Single crystal
heat capacity (150–300 K) and Anisotropic magnetic susceptibility (5–300 K) of single crystal La_2CuO_{4+x}, 312
first caesium-containing oxoiridate(IV): ($S_2Na_2(IrO_4)$ containing the quadratic-planar building block $(IrO_4)_4$, 198
Sodium
new oxomanganate(V) in the elpasolith variant: (KNa) $K(MnO_4)$, 187
$Na_7Au_5S_6$ – a novel thioaurate(I) based on a b.c.c. chalcogen packing, 252
synthesis and crystal structure of [Na(15-crown-5)]-{$NbF_5(NPPh_3)$}, $(PPh_3NH_2)[NbF_5(NPPh_3)]$ and {$Cs(15\text{-crown-}5)_2$}-(WOF_5), 30
synthesis and structure of $Na_3B_5O_8S$, the first oxothioborate, 393
synthesis and structure of Na_6WP_4, Na_5SrNbP_4 and Na_5SrTaP_4, 403
first caesium-containing oxoiridate(IV): ($S_2Na_2(IrO_4)$ containing the quadratic-planar building block $(IrO_4)^{4-}$, 198
Solidification
extension of solid solubility of rare earth metals in copper by rapid solidification, 168
Strontium
new halogen-oxoindate $Ba_3In_2O_5Br_2$ with the $Sr_3Ti_2O_7$ structure, 24
synthesis and structure of Na_6WP_4, Na_5SrNbP_4 and Na_5SrTaP_4, 403
Structure
formation of the Laves phases in Co/Fe–V–Zr and their magnetic and superconducting properties, 138
structure of high-temperature-phase Cr_5Al_8(h), 444

thermal behaviour of transition metal niobates, synthesis and structure of orthorhombic $CuNb_2O_6$, 75
preparation, thermal behaviour and structure investigation of M-$Nd_2Ti_4O_{11}$, 85
structural peculiarities of the 123 and 2212 phases and materials based on them, 59
structure and magnetic ordering of holmium carbide fluoride, Ho_2CF_2, 241
structure determination of a new misfit layer compound $(PbS)_{1.18}(TiS2)_2$, 129
synthesis and structure of a mixed-valent ternary tantalum nitride containing lithium and magnesium, 325
synthesis and structure of the silver-rich alkali metal silver sulphides $CsAg_7S_4$ and $RbAg_7S_4$, 377
synthesis and structure of $Na_3B_5O_8S$, the first oxothioborate, 393
synthesis and structure of Na_6WP_4, Na_5SrNbP_4 and Na_5SrTaP_4, 403
synthesis, structure and properties of the cluster anions $[(Mo^i_6Cl_8{}^a)X^a_6]^{2-}$ with $X^a \equiv F$, Cl, Br, I, 413
ternary tellunides with the W_5Si_3-type structure: $M_xK_4Te_3$ (M ≡ Ca,Sr), 98

Sulphur
crystal structure and electronic structure of $Nb_xTa_{2-x}S$ ($x = 0.95$): a new layered compound in ternary Ta–Nb–S system, 7
$Na_7Au_5S_6$ - a novel thioaurate(I) based on a b.c.c. chalcogen packing, 252
quaternary pseudo-intercalation phases T_x [Nb_2S_2C] (T ≡ V, Cr, Mn, Fe, Co, Ni, Cu) and metastable Nb_2S_2C formed by topochemical synthesis, 438
structure determination of a new misfit layer compound $(PbS)_{1.18}(TiS_2)_2$, 129
synthesis and structure of the silver-rich alkali metal silver sulphides $CsAg_7S_4$ and $RbAg_7S_4$, 377

Synthesis
electrochemical synthesis and crystal structure of three new clathrates $HgAg_6O_8ClO_4$, $HgAg_6O_8NO_3$ and $Hg_2Ag_{18}O_{33}H_{22}(ClO_4)_4$, 45
quaternary pseudo-intercalation phases T_x [Nb_2S_2C] (T ≡ V, Cr, Mn, Fe, Co, Ni, Cu) and metastable Nb_2S_2C formed by topochemical synthesis, 438
synthesis and crystal structure of the compounds SEPdAs (SE ≡ La–Lu), 210
synthesis and crystal structure of the zinc-iridium borides $ZnIrB_3$, $Zn_6Ir_{11}B_{6-x}$, $ZnIr_2B_2$ and Zn_2Ir_2B, 363
synthesis and structure of a mixed-valent ternary tantalum nitride containing lithium and magnesium, 325
synthesis and structure of the silver-rich alkali metal silver sulphides $CsAg_7S_4$ and $RbAg_7S_4$, 377
synthesis and structure of $Na_3B_5O_8S$, the first oxothioborate, 393
synthesis and structure of Na_6WP_4, Na_5SrNbP_4 and Na_5SrTaP_4, 403
synthesis of platinum-rich Al–Pt compounds by reaction in the $Pt/AlI_3/I_2$ system, 281
synthesis, structure and properties of the cluster anions $[(Mo^i_6Cl_8{}^a)X^a_6]^{2-}$ with $X^a \equiv F$, Cl, Br, I, 413
ternary tellunides with the W_5Si_3-type structure: $M_xK_4Te_3$ (M ≡ Ca,Sr), 98
thermal behaviour of transition metal niobates, synthesis and structure of orthorhombic $CuNb_2O_6$, 75

Tantalum
crystal structure and electronic structure of $Nb_xTa_{2-x}S$ ($x = 0.95$): a new layered compound in ternary Ta–Nb–S system, 7
synthesis and structure of a mixed-valent ternary tantalum nitride containing lithium and magnesium, 325

Thallium
crystal structures of octacyanomdydates(IV), quadratic antiprismatic $[Mo(CN)_8]^{4-}$ coordination in the thallium compound $Tl_4[Mo(CN)_8]$, 158

Thermal behaviour
thermal behaviour of transition metal niobates, synthesis and structure of orthorhombic $CuNb_2O_6$, 75
preparation, thermal behaviour and structure investigation of M-$Nd_2Ti_4O_{11}$, 85

Titanium
new halogeno-oxoindate $Ba_3In_2O_5Br_2$ with the $Sr_3Ti_2O_7$ structure, 24

preparation, thermal behaviour and structure investigation of M-$Nd_2Ti_4O_{11}$, 85
structure determination of a new misfit layer compound $(PbS)_{1.18}(TiS_2)_2$, 129
Transport properties
A-axis-oriented $YB_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattices: growth and transport properties, 224
influence of 5f electrons on transport properties in uranium based metallic glasses, 116
Tungsten
ternary tellunides with the W_5Si_3-type structure: $M_xK_4Te_3$ (M≡Ca,Sr), 98

Uranium
Influence of 5f electrons on transport properties in uranium based metallic glasses, 116

Ytterbium
existence of heavy fermion ytterbium compounds, 303
Yttrium
A-axis-oriented $YB_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattices: growth and transport properties, 224
structural peculiarities of the 123 and 2212 phases and materials based on them, 59

zinc
synthesis and crystal structure of the zinc-iridium borides $ZnIrB_3$, $Zn_6Ir_{11}B_{6-x}$, $ZnIr_2B_2$ and Zn_2Ir_2B, 363
Zirconium
neutron diffraction study of the anion-excess cubic ReO_3-type derived phase $Fe_{0.80}Xr_{0.20}F_{3.20}$, 263